

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 12 April 2021**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- Under the influence of trough/cyclonic circulations at lower tropospheric levels over south Peninsula; scattered to fairly widespread rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over southwest Peninsular India during next 5 days. Isolated heavy rainfall also likely over south & ghat areas of Tamil Nadu and Kerala & Mahe and Coastal & South Interior Karnataka during 14th-16th April, 2021.
- A cyclonic circulation lies over southwest Madhya Pradesh & neighbourhood at lower levels. Under its influence, isolated rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Madhya Pradesh, Vidarbha, Telangana, Chhattisgarh, Gangetic West Bengal and Odisha during next 4-5 days and over Jharkhand during next 24 hours.
- A fresh active Western Disturbance is very likely to affect Western Himalayan Region during 14th-17th April and adjoining plains during 15th-17th April. It is very likely to cause, scattered to fairly widespread rainfall with thunderstorm, lightning & gusty winds (30- 40 kmph) during 14th-17th April over Western Himalayan Region and light isolated to scattered rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) over adjoining plains during 15th-17th April. Isolated hailstorm also very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh on 14th April. Isolated heavy rainfall also very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad on 15th & 16th April. Thunderstorm/Duststorm at isolated places also likely over West Rajasthan on 14th & 15th April, 2021.
- Due to thunderstorm activities over most parts of the country, no significant change in maximum temperatures likely over most parts of the country during next 4-5 days. However, Heat Wave conditions very likely in isolated pockets over Saurashtra & Kutch on 12th April.
- The images showing the latest satellite picture in the figure. 1.

#### **Main Weather Observations (IMD)**

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday): at a few places over Arunachal Pradesh, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Kerala & Mahe and at isolated places over Assam & Meghalaya, Odisha, Madhya Maharashtra, North Interior Karnataka and Tamilnadu, Puducherry & Karaikal and Karnataka.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0530 hrs IST today): at a few places over North Interior Karnataka and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Jharkhand, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Madhya Pradesh, Madhya Maharashtra, Coastal Karnataka, Telangana and Kerala & Mahe.
- Heat Wave conditions were observed in isolated pockets over Saurashtra & Kutch.
- Maximum Temperature Departures as on 11-04-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Sub-Himalayan West Bengal & Sikkim and Saurashtra & Kutch; at isolated places over Himachal Pradesh, West Rajasthan and Gujarat Region; above normal (1.6°C to 3.0°C) at most places over Punjab and Haryana, Chandigarh & Delhi; at many places over Assam & Meghalaya and Konkan & Goa; at a few places over Uttar Pradesh, East Rajasthan, Bihar, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Coastal & South Interior Karnataka. They were appreciably below normal (-3.1°C to -5.0°C) most places over Vidarbha; at a few places over Chhattisgarh, Marathwada and Telangana; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Tamilnadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over North Interior Karnataka; at a few places over Madhya Maharashtra and Rayalaseema; at isolated places over Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.6°C was reported at Ahmedabad (Gujarat Region) over the country.
- Minimum Temperature Departures as on 11-04-2021: Minimum temperatures were above normal (1.6°C to 3.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura, West Rajasthan, Saurashtra & Kutch and Madhya Maharashtra; at isolated places over SubHimalayan west Bengal & Sikkim, Odisha, East Madhya Pradesh, Gujarat Region and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over

Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at many places over Telangana; at a few places over Gujarat Region, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Lakshadweep and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 10.1°C was reported at Pantnagar (Uttarakhand) over the plains of the country.

### **Weather Warning during the next 5 days (IMD)**

- 12 April (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heat Wave conditions very likely in isolated pockets over Saurashtra & Kutch.
- 13 April (Day 2): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over East Madhya Pradesh, Vidarbha, Odisha, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Telangana and Kerala & Mahe and with lightning at isolated places over Chhattisgarh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep.
- 14 April (Day 3): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha, Gangetic West Bengal, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Telangana and Kerala & Mahe and with lightning at isolated places over Madhya Pradesh, Chhattisgarh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm very likely at isolated places over West Rajasthan. Heavy rainfall very likely at isolated places over Coastal & South Interior Karnataka, Kerala & Mahe and south & ghat areas of Tamilnadu.
- 15 April (Day 4): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Vidarbha, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Telangana and Kerala & Mahe and with lightning at isolated places over Himachal Pradesh, Punjab, Bihar, Arunachal Pradesh,

Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm likely at isolated places over West Rajasthan. Heavy rainfall likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Coastal & South Interior Karnataka, Kerala & Mahe and south & ghat areas of Tamilnadu.

- 16 April (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Vidarbha, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Telangana and Kerala & Mahe and with lightning at isolated places over Himachal Pradesh, Punjab, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm likely at isolated places over West Rajasthan. Heavy rainfall likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Coastal & South Interior Karnataka, Kerala & Mahe and south & ghat areas of Tamilnadu.
- The weather outlook for seven days i.e., 12 Apr to 20 April 2021 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

## **Agricultural activities (AICRPAM-CRIDA)**

### **Konkan region**

#### **Weather condition:**

Atmospheric condition was cloudy during morning hours around Dapoli during last week. Therefore 3.7 to 10.5 Bright sunshine hours was recorded during last week. During last week 0.0 mm rainfall was recorded at Agrometeorological observatory, Dr. B.S.K.K.V. Dapoli. The maximum and minimum temperature ranged from 31.4 to 37.0 and 17.4 to 21.8 oC respectively. Wind velocity ranged from 3.6 to 4.8 km and wind was blowing from south westerly Direction.

#### **Contingency measure:**

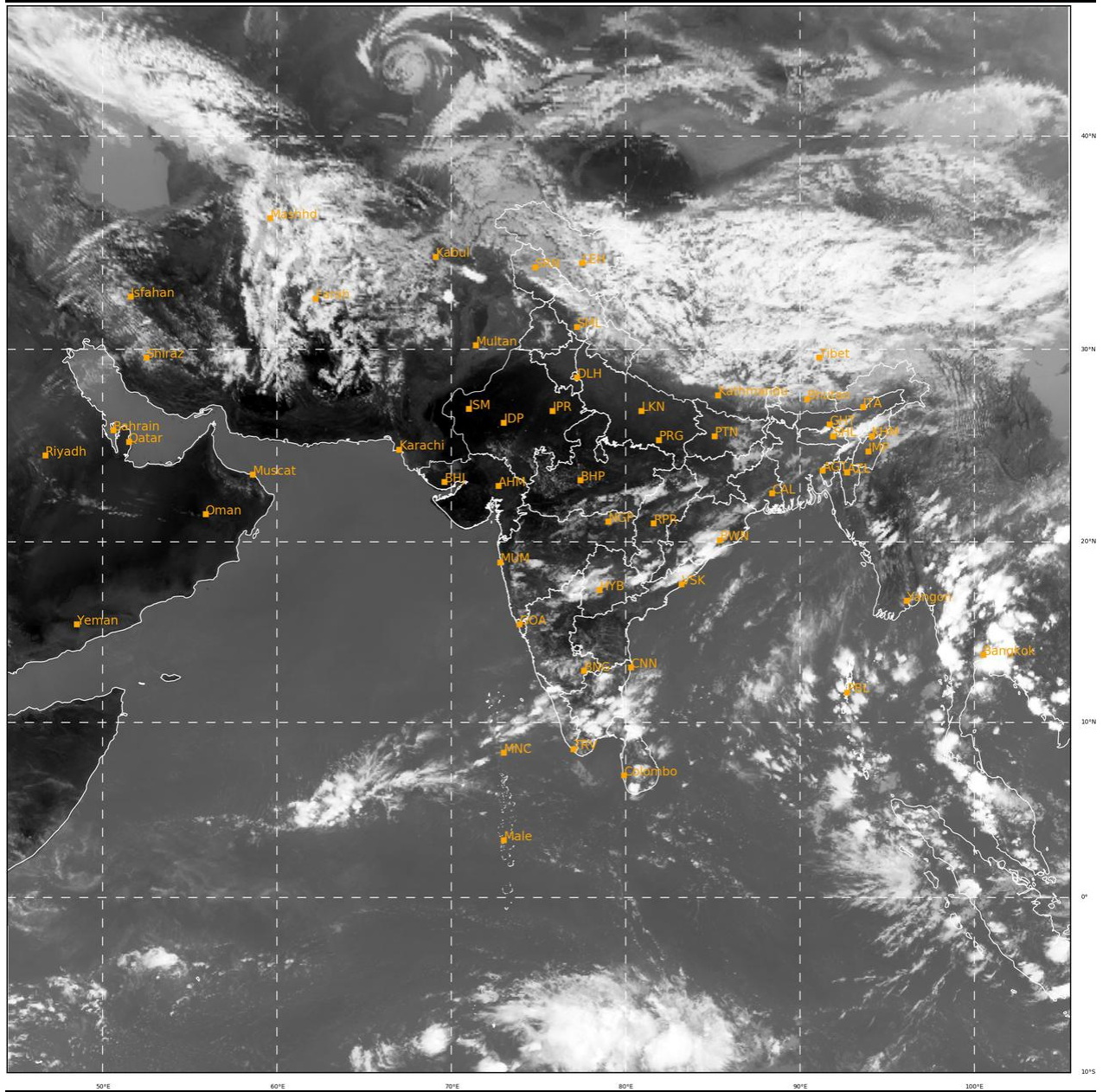
- General advisory: Due to forecast of thunderstorm along with lightning and rain at isolated places over district from 11th to 13th April, 2021, keep farm animals at safe place and away from open water, pond or river. Also harvest and stored the matured pulse crop at protective and safe place
- SMS: Due to forecast of very light rainfall from 10th to 14th April, 2021, hence to

protect the mango fruits from rain water and fruit fly incidence, cover the fruits with paper bag

- **Mango:** There is forecast for partly cloudy weather and very light rainfall from 10th to 14th April, 2021, harvest the matured mango fruits by observing rainfall situation in the morning and in the evening with the help on mango harvester at 80 to 85% maturity. Keep the harvested fruits in shade to prevent spongy tissue disease and from heat. withhold irrigation one month before fruit are ready for harvesting. Do not spray any insecticides/fungicides 8 days before harvesting of mango fruits. To prevent incidence of post-harvest diseases fruit rot on fruits, place the fruits in hot water of 52°C for 10 minutes and then keep for ripening. Use C.F.B. (corrugated fiber box) for packing. Transport of harvested fruits should be done preferably during night hours. There is forecast for cloudy weather and very light rainfall from 10th to 14th April, 2021, there is possibility of incidence of anthracnose disease on fruits of mango, if rainfall received then undertake the protective spraying for anthracnose disease, spray Carbendazim 12% + Mancozeb 63% @ 10 g per 10 liter of water. Due to forecast of very light rainfall at isolated places from 10th to 14th April, 2021, hence to protect the mango fruits from rain water and fruit fly incidence, cover the fruits with paper bag. Care should be taken that avoid injury to fruit stalk while bagging fruits with paper bag. Due to forecast for cloudy weather, there is possibility for incidence of fruit fly on mango fruits. Collect and destroy all fallen fruits and install Rakshak fruit fly trap developed by University @ 2 traps per acre. Due to forecast for cloudy weather, there is possibility for incidence of hopper in orchard where mango is in inflorescence and fruit development stage. If incidence is noticed, spray Dimethoate 30%EC @ 10 ml or Lambda cyhalothrin 5%EC @ 6 ml or Imidacloprid 17.8%SL @ 3 ml per 10 liter of water during clear weather (no rainfall).
- **Lablab bean/Cowpea:** Due to forecast of very light rainfall at isolated places from 10th to 14th April, 2021, harvest matured lablab bean, cowpea crop and keep for drying at safe and protective place
- **Brinjal, Chilli, Tomato:** Due to forecast of very light rainfall at isolated places from 10th to 14th April, 2021, harvest the matured vegetables and stored at safe and protective place. Due to forecast for very light rain with cloudy weather condition, there is possibility of incidence of hoppers, white flies and aphids in brinjal chilli, tomato crop. Use yellow sticky cards in field to attract the sucking pests (1 trap/Guntha). If required, spray dimethoate 30%EC @ 10 ml per 10 liter of water during clear weather.

SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

12-04-2021/(0830 to 0857) GMT  
12-04-2021/(1400 to 1427) IST

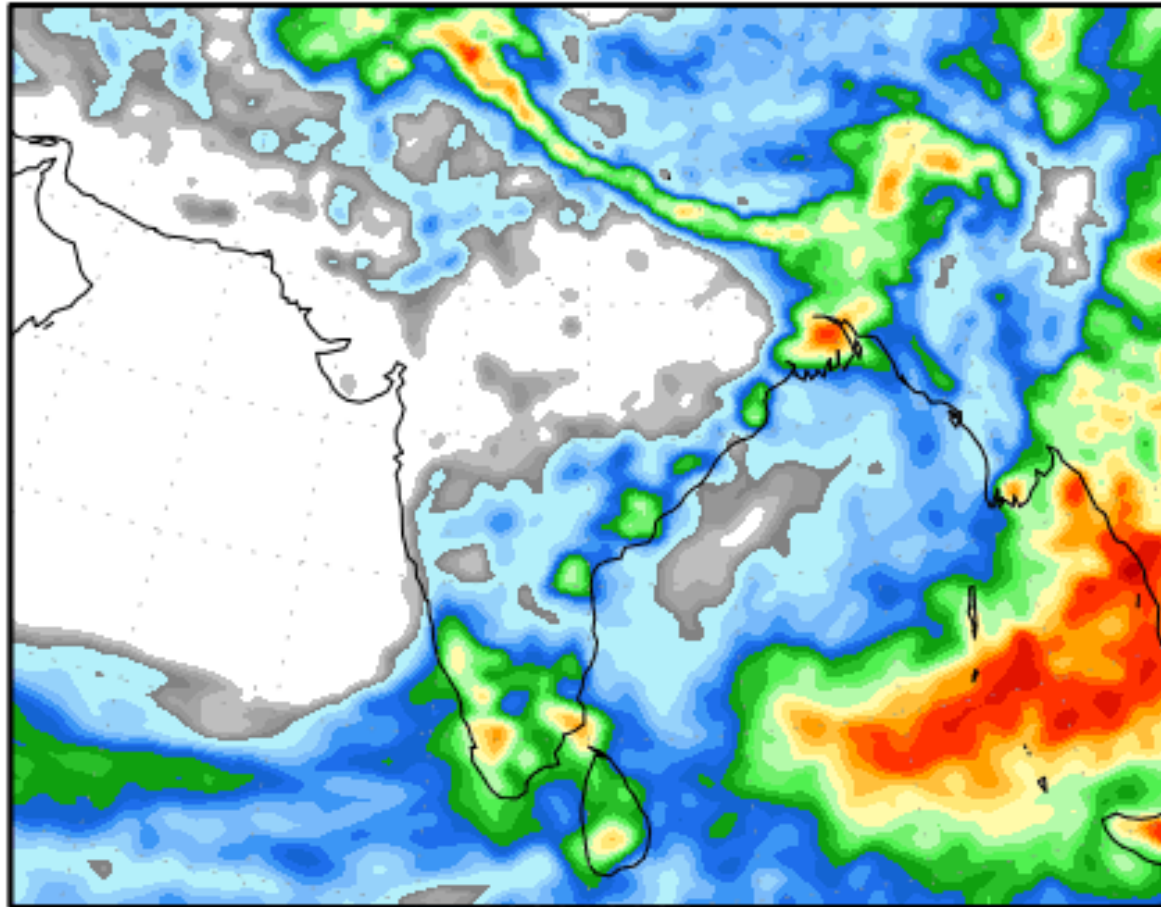


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 12 April 2021 at 1427 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 12 to 20 Apr 2021 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*